Improvised Device Defeat

Advanced Planning Briefing For Industry
February 21, 2006

Technical Support Working Group
Combating Terrorism Technology Support Office (CTTSO)

Mission

Identify, prioritize, and execute research and development projects that satisfy interagency requirements to more safely and effectively render terrorist devices safe. Particular emphasis is placed on technologies to access, diagnose, and defeat improvised explosive devices (IEDs); improvised chemical, biological, radiological, and nuclear (CBRN) devices; and vehicle borne improvised explosive devices (VBIEDs).

Subgroup Membership

Federal Membership

DoD: USA, USN, USMC, USAF
DOJ: FBI, NIJ, USMS, ATF
DHS: S&T, IAIP, TSA, USSS
Intelligence Community
U. S. Capitol Police

State and Local Membership

National Bomb Squad Commanders Advisory Board
  - Houston Police Department (Southern Region)
  - Bloomington Minnesota Police Department (Northern Region)
  - Los Angeles Police Department (Western Region)
  - Philadelphia Police Department (Eastern Region)
Fairfax County Police

2005 Success Stories

Tactical Timed Firing Device

Multi-use, timed firing device to initiate energetic charges and tools

Licensed for production
by proSWAT, Inc. of
Boise, Idaho

FY2007 Requirements

R2055 Multi-Purpose Collapsible EOD Cart

R2118 Non-Explosive IED Defeat Tool

R2119 Enhanced Remote Wire Cutter

R000-ID IDD Unspecified Requirement

Terminology

RSP - Render Safe Procedure

VBIED Disruptors -

R2055 Multi-Purpose Collapsible EOD Cart

➢ A cart to carry tools & equipment to incident site; aid in deployment of VBIED disruptors; and function as gurney in the event of casualties

➢ Constructed of material that provides a reduced fragmentation hazard in the event of detonation

➢ Adjustable bed height (20" to 40"), 4.5' bed length, wide enough to fit through standard 32" door frame

R2055 Multi-Purpose Collapsible EOD Cart (cont)

- ➤ Collapsible in design to facilitate transport in typical bomb squad response vehicle

- ➤ Support at least 600 lbs throughout adjustment of bed height, maintain support on any terrain

- ➤ Cart handle/hitch must be configured to easily affix to current EOD robotic platforms

R2055 Multi-Purpose Collapsible EOD Cart (cont)

- ➢ Ability to apply brakes manually & remotely

- ➢ Ability to adjust bed height manually (required) and remotely (desired)

- ➢ Not seeking remote controlled vehicle, self-propelled or self-loading cart

R2118 Non-Explosive IED Defeat Tool

➢ A non-explosive tool capable of defeating electronic circuitry / electronic components within an IED without functioning device and causing collateral damage

➢ Must be able to be integrated with large, medium and small robotic platforms currently in use by military EOD and civilian bomb squads

R2118 Non-Explosive IED Defeat Tool (cont)

➢ Scalable system to allow for defeat of small, medium and large IEDs as well as VBIEDs

➢ Seeking low to moderate cost solutions with small footprint

R2119 Enhanced Remote Wire Cutter

➢ A tool or series of tools to cut wires remotely when initiated from a safe location

➢ Able to provide precise simultaneous cutting action in situations where multiple cutters are deployed

➢ Flexible in design to facilitate employment in locations with extremely limited access

R2119 Enhanced Remote Wire Cutter (cont)

➢ Can not generate or introduce energy or fragmentation into the target area that may initiate explosives within the device

➢ Able to cut wiring (8 gauge and smaller) with near 100% reliability

➢ Easy to place on intended target wire by user in a bomb suit

R2119 Enhanced Remote Wire Cutter (cont)

➢ Able to work in union with other RSP tools (e.g., PAN, Neutrex, Pigstick disruptors)

➢ If pyrotechnic in nature, should be DOT classified as 1.4

➢ Re-loadable design desired

R000-ID IDD-Unspecified Requirement

➢ New or improved technologies or emerging technological capabilities pertaining to Improvised Device Defeat

➢ Areas of particular interest:

➢ Improved tools and equipment to increase the safety and effectiveness of bomb technicians

R000-ID IDD-Unspecified Requirement (cont)

➢ Technologies to access and accurately locate and/or identify components within a device

➢ Technologies to defeat IEDs and VBIEDs that increase standoff capabilities, reduce collateral damage, and provide precision disruption and disablement capabilities

➢ Technologies to improve the performance and reliability of robotic systems for bomb technicians

Subgroup
Contact Information

BAA Specific Questions:

06-Q-5570@tswg.gov